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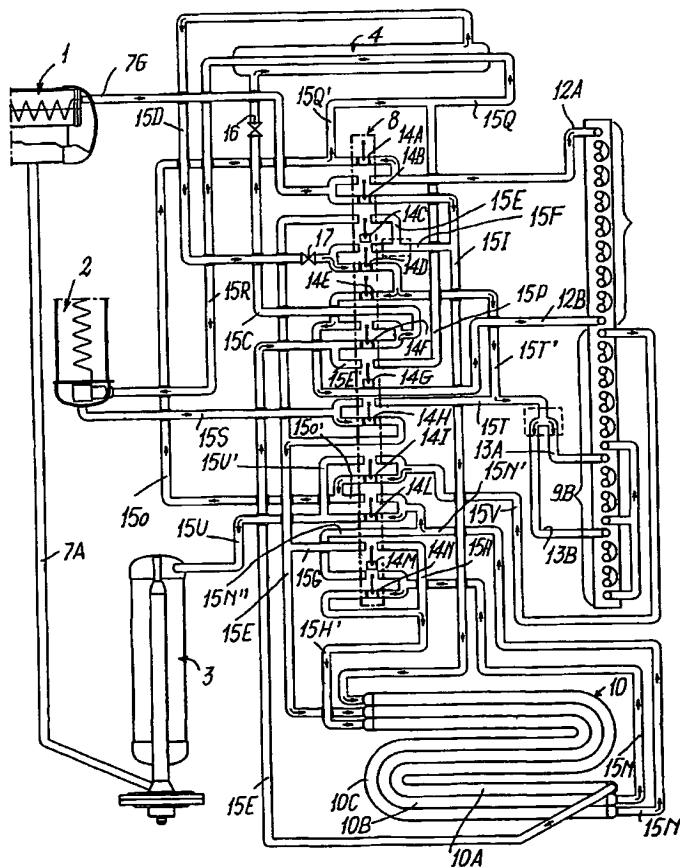
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(54) Title: REVERSIBLE AIR-WATER ABSORPTION HEAT PUMP



(57) Abstract: A cooling or heating device in an absorption heat pump of GAX type, comprising a generator (1), a heat exchanger (2) of GAX type, an absorber (9B, 10B, 10C), a condenser (9A, 10A), an evaporator (10A-C, 9B), a pump (3) connected to said absorber and generator, a first circuit (15A-Z) for the refrigerant solution circulating through the device and connecting together at least said generator, GAX heat exchanger, absorber, condenser, evaporator and pump, and valve means (8) for modifying said first circuit (15A-Z) such as to vary the manner in which evaporator, absorber, condenser and evaporator are connected together; in which at least a first and a second heat exchange means (9, 10) are provided to enable at least one phase of the solution circulating through said means to be changed and to enable thermal energy to be exchanged against an external fluid, said first and second heat exchange means (9, 10) each comprising at least two mutually separate sub-heat exchanger (9A-B, 10A-C) arranged to function either as an evaporator or as an absorber and condenser, depending on the operating mode of the device.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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A	US 4 437 321 A (ASAI SETSURO) 20 March 1984 (1984-03-20) column 6, line 4 -column 7, line 58; claim 1; figure 1	1-4,6,7, 14
A	US 5 174 129 A (KONDO MASAYUKI) 29 December 1992 (1992-12-29) column 1, line 10 -column 1, line 53; figure 4	1,14
A	US 3 527 060 A (KRUGGEL ROY W) 8 September 1970 (1970-09-08) the whole document	1,4,7

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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